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SPECIES COMPOSITION OF INDUSTRIAL TRAWL LANDINGS IN NEW ENGLAND, 1957

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SPECIAL SCIENTIFIC REPORT–FISHERIES No. 266

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

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SPECIES COMPOSITION OF INDUSTRIAL TRAWL LANDINGS IN NEW ENGLAND, 1957

By

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Special Scientific Report--Fisheries No. 266

Washington, D.C.
July 1958

ABSTRACT

This report presents data on the species composition of the industrial trawl fish catch landed at New England ports in 1957. The information is presented in the form of percent by weight and pounds landed for each of the principal fishing areas, by month and port, with appropriate summaries.

CONTENTS

	Page
Introduction	1
Remarks on the sampling procedure	2
Point Judith landings	3
New Bedford landings	4
Gloucester landings	4
Catch per trip data	4
Acknowledgement	4
Bibliography	5

LIST OF TABLES

		Page
Table 1.	1957 landings and number of trips of industrial trawl fish vessels at Pt. Judith, Rhode Island	6
Table 2.	1957 monthly landings and number of trips of industrial trawl fish vessels at New Bedford, Massachusetts	7
Table 3.	1957 landings and number of trips of industrial trawl fish vessels at Gloucester, Massachusetts	8
Table 4.	Species composition in percent by weight, by month, for Pt. Judith offshore area, 1957	9
Table 5.	Species composition of industrial trawl fish landings in pounds by month from Pt. Judith offshore area in 1957	10
Table 6.	Species composition in percent by weight, by month, for Pt. Judith inshore area, 1957	11
Table 7.	Species composition of industrial trawl fish landings by month from Pt. Judith inshore area in 1957	12
Table 8.	Species composition in percent by weight, by month, of industrial trawl fish landed at Pt. Judith and New Bedford from No Man's area	13
Table 9.	Species composition of industrial trawl fish landings at Pt. Judith in pounds by month from No Man's, 1957	14
Table 10.	Species composition of industrial trawl fish landings at New Bedford in pounds by month from No Man's, 1957	15
Table 11.	Species composition in percent by weight, by month, of industrial trawl fish landed at Gloucester from the Ipswich Bay area	16
Table 12.	Species composition of industrial trawl fish landings at Gloucester in pounds by month from the Ipswich Bay area, 1957	17
Table 13.	Species composition in percent by weight, by month, of Gloucester industrial trawl fish landings from Stellwagen Bank, 1957	18

LIST OF TABLES (Cont'd)

Page

Table 14. Species composition of industrial trawl fish landings at Gloucester in pounds by month from Stellwagen Bank, 1957 19

Table 15. Species composition in percent by weight, by month, of Gloucester industrial trawl fish landings from the Nauset's area, 1957. 20

Table 16. Species composition of industrial trawl fish landings at Gloucester in pounds by month from Nauset's area, 1957 21

Table 17. Total pounds of each species landed in the industrial trawl catch by port and area in 1957 22

Table 18. The catch per trip of industrial trawl fish on each on the principal fishing grounds, 1957. 23

SPECIES COMPOSITION OF INDUSTRIAL TRAWL LANDINGS IN NEW ENGLAND, 1957

INTRODUCTION

The industrial trawl fishery has been growing rapidly in New England since its start in 1949 (Snow 1950 and Sayles 1951). These landings of so-called "trash fish" have excited the interest of members of the fishing industry since that time. Since the beginning there have been many complaints from sportsmen and fishermen to the effect that large quantities of valuable food species, particularly the yellowtail flounder, were being utilized for animal food. Others claimed that excessive quantities of small fish of various other species were likewise being wasted.

In order to clarify the situation and help to settle the considerable amount of discussion about the industry, research on the fishery was started at Woods Hole with Saltonstall-Kennedy funds in 1955. Initially, the project was primarily concerned with the effect of the fishery on the yellowtail flounder. Much of the original controversy now appears to have been unwarranted while other problems, equally serious but not so obvious, have come to light. Many of the species involved merited study and accordingly the research emphasis was shifted to a study of the species complexes involved in each major fishing area and to the significance of hydrography on their structure. In addition, a comprehensive life history study of the red hake, the mainstay of this fishery, was begun.

Until 1957, the greater part of the New England landings were made at Pt. Judith from the fishing grounds off southern New England. In 1957, due to the marked decline of the menhaden population in the Gulf of Maine, there was a notable increase in industrial trawl fish landings at Gloucester. In the event that a relatively stable industrial fleet develops at Gloucester, it is felt that the overall landing for New England could easily double in the next few years.

The landings with which we are concerned here are those made by vessels that are fishing a population wholly or in part for fish for reduction. This report is not concerned with those occasional trips of spoiled food fish that are sold for reduction, or those occasional trips of food fish sold for reduction because a skipper is not satisfied with the market price. The former situation occurs at all ports, the latter principally at Gloucester in connection with the silver hake fishery. In the main this fishery is a split fishery in that vessels land both fish for reduction and fish for food. In general terms, the southern New England industrial trawl fishery is based on a flounder economy and the Gulf of Maine fishery is based on a silver hake economy.

The present report is concerned solely with presenting an estimation of the landings of the various species involved at the principal New England ports. In 1957, the landings totaled about 168 million pounds, by port as follows: Gloucester, 37 million pounds, New Bedford, 42 million pounds, and Point Judith, 89 million pounds. For a summary of New England landings prior to 1957, see Edwards and Lux 1958. For general information on the Pt. Judith fishery, see Interim Report: The Flounder and Industrial Fishery Project.[1/] For a detailed discussion of this fishery at Gloucester, see Edwards 1958.[2/]

REMARKS ON THE SAMPLING PROCEDURE

At Pt. Judith, the catch is normally sampled by forking fish out of a conveyor belt as the fish are transported from the vessel to the reduction plant. Fish to be sampled are similarly obtained at New Bedford, but at Gloucester the catch is sampled from a dump truck. Proper precautions are taken to assure that the samples are not taken from mixed area trips. Complete interviews are made of all trips as far as possible, sampled or not.

1/ Interim Report: The Flounder and Industrial Fishery Project. Multilithed report prepared by R. L. Edwards for the Annual Meeting of the Point Judith Fishermen's Cooperative Ass'n., Inc., February 10, 1956. Available on request from North Atlantic Fishery Investigations, Woods Hole, Massachusetts.

2/ Edwards, Robert L. 1958. The Industrial Trawl Fishery at Gloucester. Manuscript.

Usually, the fish in each sample are counted and weighed by species. At intervals, all the individual fish in the sample are measured to obtain length frequency information. Sample size is usually one bushel although occasionally a two bushel sample is taken so that adequate numbers of individual species are present for length frequency information. It has been determined that a one bushel sample is an adequate representation of any single vessel's load for all species present that make up over 10% by weight of the catch. The increase in sample reliability in a two bushel sample for species composition by weight analyses does not justify the additional labor at this time. For the purposes of this report, it is presumed that the samples are sufficiently reliable to indicate the seasonal trends and relative amounts of the different species landed within $\pm$ 5% for all those species representing 10% or more by weight of the catch.

Those species present in quantities amounting to less than 10% of the catch are not reliably sampled and the limits of confidence are very broad. However, it is felt that the general picture presented is more than accurate enough for the purposes of those interested in what this fishery lands for reduction. An extended analysis of sample reliability will be published later in connection with other studies. As far as possible, only samples taken in 1957 were used. In some cases, however, the breakdown was made with information based on samples taken in 1955 and 1956. The tables are annotated accordingly.

Samples taken at one port may be used in an analysis of another port's landings; it is the fishing area that we are concerned with when we take the sample. The port of landing obviously has no significant effect on the species composition.

POINT JUDITH LANDINGS

To obtain as accurate figures as possible, the Pt. Judith landings are broken down into three general groups by area: landings from the No Man's area, landings from those local grounds with depths of less than 25 fathoms and referred to as the inshore area, and landings from local grounds with depths of greater than 25 fathoms and referred to as the offshore area. Only 1957 sample data was used for the inshore and offshore areas. For the No Man's breakdown, the data for the last three years has been combined. There has been no significant changes in the percentages from one year to the next in this particular area. Interview information on the fishing grounds was available for over 90% of the trips. The uninterviewed trips were assigned to one of the three areas according to the distribution of interviewed trips.

NEW BEDFORD LANDINGS

Interview information on the landings at New Bedford indicates that about 90% of the trips landed are from No Man's. Approximately 50% of the New Bedford trips were interviewed. The entire landings were therefore broken down with the data obtained from No Man's samples. In view of the great similarity of the other local fishing grounds, only a very negligible error, if any, is introduced by this action.

GLOUCESTER LANDINGS

The Gloucester landings originate from three general areas, referred to here as the Ipswich area, Nauset, and Stellwagen Bank. Since these areas differ considerably as far as the fish landed are concerned, the data is broken down accordingly. Approximately 90% of the trips landed at Gloucester were interviewed. A number of pure trips of silver hake were landed for reduction at Gloucester. These figures are not available, except for August, when an estimated 735,000 pounds of silver hake were landed for reduction from Stellwagen Bank. The Gloucester vessels will frequently fish two or more grounds during any one trip. Even with the excellent interview information available, a considerable amount of prorating was necessary. Thirty-seven percent of the trips were multiple area trips.

CATCH-PER-TRIP DATA

A table is included indicating the number of interviewed trips to each ground at Pt. Judith and Gloucester and the average catch per trip. The catch-per-trip data are based on interviewed single area trips so that it may serve as a rough index of abundance. It will be noticed that number of trips used in the calculations for the three Gloucester grounds is far less than the total number of trips for Gloucester for any one month, because the Gloucester vessels have a strong tendency to fish on two or more grounds during any one trip.

ACKNOWLEDGEMENT

The author wishes to acknowledge the assistance of Miss Elizabeth Gallagher in processing the bulk of the data presented.

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1950. Development of Trash Fishery at New Bedford, Massachusetts. Commercial Fisheries Review 12 (7). Sep . No. 256.

Table 1.--1957 landings and number of trips by month and fishing area of industrial trawl fish vessels at Pt. Judith, Rhode Island. Landings are to nearest 1000 pounds.

Area	Offshore		Inshore		No Man's		Totals	
Month	Pounds	Trips	Pounds	Trips	Pounds	Trips	Pounds	Trips
January	806	62	249	39			1,055	101
February	2,017	110	427	41	49	3	2,493	154
March	1,232	91	589	34	1010	32	2,831	157
April	8,610	246	493	78	3062	67	12,165	391
May	3,808	125	1540	200	7107	106	12,455	431
June	5,095	138	2679	256	4744	70	12,518	464
July	3,591	139	691	149	4885	76	9,167	364
August	5,131	142	1458	198	3919	59	10,508	399
September	3,884	123	1286	169	4221	70	9,391	362
October	3,716	117	1247	153	1732	26	6,695	296
November	4,709	169	1569	260	1959	26	8,237	455
December	331	23	1004	230	248	7	1,583	260
Totals	42,930	1,485	13,232	1,807	32,936	542	89,098	3,834

Table 2.--1957 landings and number of trips by month of industrial trawl fish vessels at New Bedford, Mass.[1/] Landings are to nearest 1000 pounds.

Month	Pounds	Trips
January	140	5
February	533	25
March	846	32
April	3,195	59
May	7,532	123
June	6,789	118
July	4,035	92
August	5,323	122
September	5,344	146
October	4,978	131
November	3,697	91
December	200	18
Totals	42,612	962

[1/] At least 90% of the landings from No Man's area.

Table 3.--1957 landings and number of trips by month and fishing area of industrial trawl fish vessels at Gloucester, Mass. Landings are to nearest 1000 pounds.

Area	Ipswich		Stellwagen		Nausets		Totals	
Month	Pounds	Trips	Pounds	Trips	Pounds	Trips	Pounds	Trips
January	63	8	64	8			127	16
February	32	4	33	4			65	8
March	25	3					25	3
April	4	1			4	2	8	3
May	61	6			1701	42	1762	48
June	152	13	61	4	3117	72	3330	89
July	140	10	466	13	3934	73	4540	96
August	205	12	705	28	5208	80	6118	120
September	253	11	6539	140	662	5	7454	156
October	414	18	6036	169	912	15	7362	202
November	367	37	3740	177	1393	22	5500	236
December	70	9	1167	79	114	6	1351	94
Totals	1786	130	18,811	621	17,045	305	37,642	1071

Table 4. --Species composition in percent by weight, by month of industrial trawl fish landings from the Offshore area, 1957.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.[1/]	Dec.
Number of samples	9	11	2	7	8	5	5	4	2	1	10	3
Red hake	3.7	0.8	1.5	47.8	21.0	17.4	22.7	34.8	11.9	2.2	59.9	1.4
Silver hake	20.1	6.0	5.3	15.2	9.1	14.1	49.9	43.7	85.5	35.8	12.1	0.9
White hake	1.8	0.6	-	1.0	2.0	0.9	1.9	1.0	-	-	0.1	-
Spotted hake								0.1		0.5	0.1	
Cod												0.5
Little skate	10.9	17.0	18.3	4.0	7.8	9.5	6.5	2.7	-	5.3	7.0	12.8
Big skate	5.9	11.5	2.0	3.2	6.1	3.5	1.4	4.0	-	-	0.7	16.3
Barndoor skate	1.2	4.2	7.7	0.4	3.2	1.3	1.2	0.8	-	-	0.6	-
Spiny dogfish	16.5	4.4	4.9	1.7	4.6	-	0.2	-	-	49.0	4.3	43.0
Yellowtail flounder	3.3	5.6	10.0	3.6	4.8	2.0	2.8	0.4	-	-	1.1	1.0
Winter flounder	0.1	0.1	-	0.2	-	0.5	1.2	0.1	-	0.5	0.1	0.1
4-spot flounder	0.6	0.7	0.7	0.3	0.6	0.5	1.3	1.3	-	0.6	1.4	0.4
Sand flounder	3.7	3.1	1.2	0.4	0.6	2.1	0.3	0.8	-	0.8	0.2	0.7
Gulf stream flounder	0.2	-	0.2	-	-	-	-	-	-	-	-	-
Sea herring	0.3	0.2	-	0.1	-	-	-	0.2	-	-	-	-
Alewife	7.3	2.7	-	0.3	0.9	2.2	0.1	-	-	-	-	1.6
Cunner	-	-	-	-	-	-	0.1	-	-	-	-	-
Scup	0.1	-	-	0.6	-	-	-	-	-	4.2	0.5	-
Butterfish	0.8	-	-	-	-	0.5	2.0	1.7	-	0.8	0.3	0.3
Long-horned sculpin	2.3	4.5	11.3	1.7	5.8	1.6	0.5	-	-	-	0.3	1.4
Sea robin	-	-	-	0.4	0.5	-	-	-	-	0.2	3.8	-
Striped sea robin	-	-	-	-	-	-	-	-	-	0.1	0.1	-
Angler	3.1	15.4	13.0	8.9	9.8	20.2	5.6	8.3	2.6	-	6.0	16.8
Sea raven	-	-	0.3	-	-	-	0.5	-	-	-	-	-
4-bearded rockling	-	-	-	-	-	-	0.2	-	-	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	0.3	-
Eel pout	18.1	23.2	23.6	10.2	23.2	23.7	1.4	0.1	-	-	1.1	2.8
Wrymouth	-	-	-	-	-	-	0.2	-	-	-	-	-

[1/] Figures based on 1956 samples.

Table 5.--Species composition in pounds, by month, of Point Judith industrial trawl fish landings from the Offshore area, 1957. Pounds to the nearest 1,000 pounds.

	January	February	March	April	May	June	July	August	September	October	November 1/	December
Red hake	30	16	18	4,099	796	886	815	1,775	462	82	2,816	5
Silver hake	161	121	65	1,300	347	718	1,792	2,232	3,320	1,330	565	3
White hake	15	12	-	86	76	46	68	51	-	-	5	-
Spotted hake	-	-	-	-	-	-	-	5	-	19	5	-
Cod	-	-	-	-	-	-	-	-	-	-	-	2
Little skate	88	345	224	344	297	484	233	139	-	197	330	42
Big skate	48	234	25	276	232	178	50	205	-	-	33	54
Barndoor skate	10	85	95	34	122	66	43	41	-	-	28	-
Spiny dogfish	133	89	60	146	175	-	7	-	-	1,821	202	142
Yellowtail flounder	27	113	123	310	183	102	101	21	-	-	52	3
Winter flounder	1	2	-	17	-	25	43	5	-	19	5	-
4-spot flounder	5	14	9	26	23	25	47	67	-	22	66	1
Sand flounder	30	63	15	34	23	107	11	41	-	30	9	2
Gulf stream flounder	2	-	2	-	-	-	-	-	-	-	-	-
Sea herring	2	4	-	9	-	-	-	10	-	-	-	-
Alewife	59	54	-	26	34	112	4	-	-	-	-	5
Cunner	-	-	-	-	-	-	4	-	-	-	-	-
Scup	1	-	-	52	-	-	-	-	-	156	24	-
Butterfish	6	-	-	-	-	25	72	87	-	30	14	1
Long-horned sculpin	19	91	139	146	221	82	18	-	-	-	14	5
Sea robin	-	-	-	34	19	-	-	-	-	7	179	-
Striped sea robin	-	-	-	-	-	-	-	-	-	4	5	-
Angler	25	311	160	766	373	1,029	201	426	101	-	283	56
Sea raven	-	-	4	-	-	-	18	-	-	-	-	-
4-bearded rockling	-	-	-	-	-	-	7	-	-	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	14	-
Eel pout	146	472	288	870	868	1,207	50	5	-	-	52	9
Wrymouth	-	-	-	-	-	-	7	-	-	-	-	-
Totals	808	2,026	1,227	8,575	3,789	5,092	3,591	5,110	3,883	3,617	4,701	330

1/ Based on 1956 figures.

Table 6.--Species composition in percent by weight, by month, of Point Judith industrial trawl fish landings from the Inshore area, 1957.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of samples	8	5	4	11	17	14	13	12	16	21	12	3
Red hake.	1.9	2.8	1.0	16.1	33.4	32.8	19.9	13.0	6.5	7.9	22.0	3.2
Silver hake	18.7	24.6	2.9	7.9	27.2	42.6	35.3	37.9	56.9	42.7	32.5	12.8
White hake	7.1	0.9	-	0.3	0.3	1.3	0.5	-	0.1	0.1	0.1	-
Spotted hake	-	-	-	-	-	-	-	-	0.1	-	-	-
Cod	-	-	-	-	-	0.2	-	-	-	-	-	-
Tom cod	-	-	-	-	-	-	0.1	-	-	-	-	-
Little skate	10.9	4.9	13.1	6.0	2.1	2.3	7.3	7.3	11.8	8.0	6.4	1.5
Big skate	3.7	1.4	4.8	6.2	2.9	0.8	4.2	5.3	6.8	8.5	8.1	6.7
Barndoor skate	-	0.8	0.5	-	-	-	-	-	-	-	0.6	-
Spiny dogfish	4.3	-	-	15.1	2.5	0.1	0.4	2.1	0.5	12.0	12.0	42.7
Smooth dogfish	-	-	-	-	1.3	1.6	4.3	0.1	0.1	1.5	-	-
Yellowtail flounder	0.3	-	-	-	-	-	-	-	-	-	-	-
Winter flounder	-	0.3	0.7	0.2	0.5	0.9	4.5	1.1	0.5	0.5	0.3	-
4-spot flounder	0.2	-	-	-	0.5	1.7	3.7	2.7	0.9	0.5	0.3	-
Sand flounder	1.7	0.6	6.2	0.1	1.0	-	1.6	1.1	1.7	0.5	0.1	0.4
Sea herring	0.7	7.0	5.4	0.2	0.1	-	-	-	-	-	-	-
Alewife	11.9	11.0	2.0	1.3	1.0	0.2	0.1	0.1	-	-	0.3	10.6
Menhaden	-	-	-	-	-	-	-	-	0.1	0.1	-	-
Cunner	-	-	-	-	0.2	0.1	-	-	-	-	-	-
Scup	-	-	-	-	0.7	-	-	2.6	2.2	6.0	-	-
Butterfish	-	-	-	-	0.2	0.3	0.5	0.4	0.4	2.4	2.2	0.5
Long-horned sculpin	6.6	7.6	7.8	4.0	2.1	-	-	-	-	-	0.5	2.7
Sea robin	-	-	-	0.1	0.4	0.2	0.2	19.4	4.2	1.2	-	-
Striped sea robin	-	-	-	-	-	-	0.2	0.4	0.1	0.1	1.3	-
Weakfish	-	-	-	-	-	-	-	0.1	-	0.1	-	-
Puffer	-	-	-	-	-	-	-	-	0.1	-	-	-
Angler	7.1	5.8	8.3	6.6	6.1	11.4	15.8	6.0	6.9	7.9	13.0	18.7
Sea raven	-	-	0.5	-	-	-	0.2	-	0.1	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	0.3	-
Eel pout	24.9	32.3	46.8	35.9	17.5	3.5	1.2	-	-	-	-	0.2
Totals	100	100	100	100	100	100	100	100	100	100	100	100

Table 7.--Species composition in pounds, by month, of Point Judith industrial trawl fish landings from the Inshore area, 1957
Pounds to the nearest 1,000 pounds.

	January	February	March	April	May	June	July	August	September	October	November	December
Red hake	5	12	6	79	514	879	137	190	84	99	345	32
Silver hake	47	105	17	39	419	1,141	244	547	729	530	507	128
White hake	18	4	-	1	5	35	3	-	1	1	2	-
Spotted hake	-	-	-	-	-	-	-	-	1	-	-	-
Cod	-	-	-	-	-	5	-	-	-	-	-	-
Tom cod	-	-	-	-	-	-	1	-	-	-	-	-
Little skate	27	21	77	30	32	62	50	106	152	100	100	15
Big skate	9	6	28	31	45	21	29	77	81	106	127	67
Barndoor skate	-	3	3	-	-	-	-	-	-	-	9	-
Spiny dogfish	11	-	-	74	38	3	3	31	6	150	188	429
Smooth dogfish	-	-	-	-	20	43	30	1	1	19	-	-
Yellowtail flounder	1	-	-	-	-	-	-	-	-	-	-	-
Winter flounder	-	1	4	1	8	24	31	16	6	6	5	-
4-spot flounder	1	-	-	-	8	46	26	39	12	6	5	-
Sand flounder	4	3	37	-	15	-	11	16	22	6	2	4
Sea herring	2	30	32	1	2	-	-	-	-	-	-	-
Alewife	30	47	12	6	15	5	1	1	-	-	5	106
Menhaden	-	-	-	-	-	-	-	-	1	1	-	-
Cunner	-	-	-	-	3	3	-	-	-	-	-	-
Scup	-	-	-	-	11	-	-	38	28	75	-	-
Butterfish	-	-	-	-	3	8	3	6	5	30	35	5
Long-horned sculpin	16	32	46	20	32	-	-	-	-	-	8	27
Sea robin	-	-	-	-	6	5	1	283	54	15	-	-
Striped sea robin	-	-	-	-	-	-	1	6	1	1	20	-
Weakfish	-	-	-	-	-	-	-	1	-	1	-	-
Puffer	-	-	-	-	-	-	-	-	1	-	-	-
Angler	18	25	49	33	94	305	109	88	89	99	204	188
Sea raven	-	-	3	-	-	-	1	-	1	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	5	-
Eel pout	62	137	274	173	265	67	6	-	-	-	-	2
Totals	251	426	588	488	1,535	2,652	687	1,446	1,275	1,245	1,566	1,003

Table 8.--Species composition in percent by weight, by month, of industrial trawl fish landings from the No Man's area[1] (samples taken from New Bedford and Point Judith), 1955-1957.

	Jan.	Feb.[2]	March	April	May	June	July[3]	Aug.[3]	Sept.[3]	Oct.	Nov.	Dec.
Number of samples	2	1	6	11	8	4	3	3	3	3	3	2
Red hake	-	0.3	4.9	49.3	75.9	64.1	56.9	63.3	58.9	69.9	37.3	3.6
Silver hake	-	4.7	0.4	0.7	4.4	17.2	21.2	21.6	26.9	9.5	17.4	2.4
White hake	-	-	-	0.3	0.8	-	-	-	0.3	-	0.9	-
Haddock	-	-	-	-	-	0.1	-	0.1	0.1	-	-	-
Cod	-	0.4	-	-	-	-	-	-	-	-	-	-
Little skate	23.8	28.5	11.8	6.6	3.0	5.7	7.4	5.9	5.9	8.5	10.3	14.6
Big skate	52.5	4.3	27.9	8.6	6.2	1.2	2.0	0.9	0.5	0.3	4.6	20.3
Barndoor skate	-	-	4.2	4.4	-	1.7	0.6	0.9	0.6	1.5	0.8	3.8
Spiny dogfish	-	-	2.2	3.1	-	-	0.8	-	-	2.8	6.5	22.9
Smooth dogfish	-	-	-	-	-	-	0.6	-	-	-	-	-
Yellowtail flounder	-	10.3	0.2	0.7	0.6	0.9	0.1	-	0.3	1.2	0.1	1.1
Winter flounder	-	-	-	-	-	0.2	0.2	0.3	0.1	-	-	-
Summer flounder	-	-	-	-	-	-	-	-	-	0.1	-	-
4-spot flounder	-	-	-	-	0.5	1.2	1.3	1.2	0.7	0.5	0.8	1.2
Sand flounder	4.3	12.2	1.4	1.3	0.6	0.1	0.1	0.6	-	-	0.5	1.2
Sea herring	-	0.8	-	-	-	-	-	-	0.1	-	1.7	-
Alewife	-	-	0.1	-	-	0.3	0.3	0.1	1.4	-	0.3	0.2
Cunner	-	-	-	-	-	-	-	-	-	-	0.5	-
Scup	-	-	-	-	-	-	-	-	-	0.2	0.1	-
Butterfish	-	-	-	-	-	0.3	7.7	1.1	3.3	0.3	1.7	0.3
Long-horned sculpin	9.3	19.0	12.1	3.1	0.7	0.2	0.3	0.1	0.2	-	7.6	2.0
Sea robin	-	0.2	-	-	0.3	-	-	0.8	0.3	3.7	2.9	-
Angler	-	0.2	6.0	4.8	3.2	6.7	0.3	3.1	-	0.6	5.9	23.8
Sea raven	-	-	-	-	-	0.2	0.1	-	-	0.2	-	-
4-bearded rockling	-	-	-	-	0.1	-	-	-	-	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	0.1	1.1
Eel pout	10.1	19.1	27.9	17.0	3.7	0.2	0.1	-	0.4	0.7	-	1.5
Totals	100	100	100	100	100	100	100	100	100	100	100	100

1/ All sample data for 1955, 1956, and 1957 combined.

2/ 1957 sample

3/ July, August and September figures based on 1955 and 1956 samples only.

Table 9.--Species composition in pounds, by month, of New Bedford industrial trawl fish landings from the No Man's area,[1] 1957. Pounds to the nearest 1,000 pounds.

	January	February[2]	March	April	May	June	July[3]	August[3]	September[3]	October	November	December
Red hake	-	2	41	1,572	5,679	4,352	2,288	3,353	3,132	3,470	1,379	7
Silver hake	-	25	3	22	331	1,168	855	1,150	1,411	473	643	5
White hake	-	-	-	10	60	-	-	-	16	-	33	-
Haddock	-	-	-	-	-	7	-	5	5	-	-	-
Cod	-	2	-	-	-	-	-	-	-	-	-	-
Little skate	33	152	100	211	226	387	299	314	305	423	381	29
Big skate	73	23	236	275	452	81	81	48	27	15	170	41
Barndoor skate	-	-	36	141	-	115	24	48	32	75	30	8
Spiny dogfish	-	-	19	99	-	-	32	-	-	139	240	46
Smooth dogfish	-	-	-	-	-	-	24	-	-	-	-	-
Yellowtail flounder	-	55	2	22	45	61	8	-	16	60	4	2
Winter flounder	-	-	-	-	-	14	2	16	5	-	-	-
Summer flounder	-	-	-	-	-	-	-	-	-	5	-	-
4-spot flounder	-	-	-	-	38	81	52	64	37	25	30	2
Sand flounder	6	65	12	42	45	7	4	32	-	-	18	2
Sea herring	-	4	-	-	-	-	-	-	5	-	63	-
Alewife	-	-	1	3	-	-	12	3	75	-	11	-
Cunner	-	-	-	-	-	-	-	-	-	-	18	-
Scup	-	-	-	-	-	-	-	-	-	10	4	-
Butterfish	-	-	-	-	-	20	311	59	166	15	63	1
Long-horned sculpin	13	101	102	99	53	14	12	5	11	-	281	4
Sea robin	-	1	-	-	23	-	-	43	16	184	107	-
Angler	-	1	51	153	241	455	12	165	-	30	218	47
Sea raven	-	-	-	-	-	14	4	-	-	10	-	-
4-bearded rockling	-	-	-	-	8	-	-	-	-	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	4	2
Eel pout	14	102	236	543	279	14	4	-	21	35	-	3
Totals	139	533	839	3,192	7,480	6,790	4,024	5,305	5,280	4,969	3,697	199

1/ Based on combined sample data for 1955, 1956 and 1957

2/ Based on 1957 sample only.

3/ Based on 1955 and 1956 samples only.

Table 10.--Species composition in pounds, by month, of Point Judith industrial trawl fish landings from the No Man's area, 1957.
Pounds to the nearest 1,000 pounds.

	January	February[2]	March	April	May	June	July[3]	August[3]	September[3]	October	November	December
Red hake	-	-	49	1,506	5,359	3,041	2,770	2,469	2,473	1,207	731	9
Silver hake	-	2	4	21	313	816	1,036	847	1,114	165	341	6
White hake	-	-	-	9	57	-	-	-	13	-	18	-
Haddock	-	-	-	-	-	5	5	4	4	-	-	-
Little skate	-	14	119	202	213	270	361	231	241	147	202	36
Big skate	-	2	282	263	426	57	98	35	21	5	90	50
Barndoor skate	-	-	42	135	-	81	29	35	25	26	16	9
Spiny dogfish	-	-	22	95	-	-	39	-	-	48	127	57
Smooth dogfish	-	-	-	-	-	-	29	-	-	-	-	-
Yellowtail flounder	-	5	2	21	43	43	2	-	13	21	2	3
Winter flounder	-	-	-	-	-	10	10	12	4	-	-	-
Summer flounder	-	-	-	-	-	-	-	-	-	2	-	-
4-spot flounder	-	-	-	-	36	57	64	47	30	9	16	3
Sand flounder	-	6	14	40	43	5	5	24	-	-	10	3
Sea herring	-	-	-	-	-	-	-	-	4	-	33	-
Alewife	-	-	1	3	-	-	15	2	59	-	6	-
Cunner	-	-	-	-	-	-	-	-	-	-	10	-
Scup	-	-	-	-	-	-	-	-	-	3	2	-
Butterfish	-	-	-	-	-	14	376	43	131	5	33	1
Long-horned sculpin	-	9	121	95	50	10	15	4	8	-	149	5
Sea robin	-	-	-	-	21	-	-	31	13	64	57	-
Angler	-	-	61	147	227	318	15	121	-	10	116	58
Sea raven	-	-	-	-	-	10	5	-	-	3	-	-
4-bearded rockling	-	-	-	-	7	-	-	-	-	-	-	-
Conger eel	-	-	-	-	-	-	-	-	-	-	2	3
Eel pout	-	9	282	520	263	10	5	-	17	12	-	4
Totals	-	47	999	3,057	7,058	4,747	4,879	3,905	4,170	1,727	1,961	247

[1] Based on combined sample data for 1955, 1956, and 1957.

[2] 1957 sample data only.

[3] Based on 1955 and 1956 samples only.

Table 11.--Species composition in percent by weight, by month, of Gloucester trawl fish landings from the Ipswich area, 1957.

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Number of samples	-	-	-	-	2	2	1	2	1	4	2	-
Red hake	-	-	-	-	38.6	53.1	84.5	50.5	42.4	33.7	23.7	-
Silver hake	-	-	-	-	15.7	19.0	-	22.4	37.9	25.2	36.2	-
White hake	-	-	-	-	2.9	-	-	-	-	-	-	-
Haddock	-	-	-	-	0.8	0.1	-	2.0	5.5	0.4	0.6	-
Cod	-	-	-	-	0.3	0.3	-	0.6	-	0.6	0.3	-
Ocean perch	-	-	-	-	2.3	0.1	-	-	-	0.1	-	-
Little skate	-	-	-	-	1.3	0.5	-	-	-	2.0	0.5	-
Big skate	-	-	-	-	-	-	-	-	-	0.5	0.9	-
Barndoor skate	-	-	-	-	8.3	-	-	-	-	-	-	-
Spiny dogfish	-	-	-	-	-	5.9	9.3	1.1	-	-	3.5	-
Yellowtail flounder	-	-	-	-	0.2	-	-	-	-	-	-	-
Winter flounder	-	-	-	-	-	-	1.5	0.5	-	-	-	-
Greysole	-	-	-	-	0.1	0.3	-	-	-	-	-	-
4-spot flounder	-	-	-	-	-	-	-	0.1	-	-	-	-
Sea herring	-	-	-	-	0.3	0.3	1.3	1.3	11.9	1.4	0.2	-
Alewife	-	-	-	-	-	-	-	8.4	-	-	-	-
Blueback	-	-	-	-	2.2	7.9	-	-	-	4.9	9.3	-
Shad	-	-	-	-	-	3.2	-	2.2	-	0.2	0.6	-
Butterfish	-	-	-	-	-	-	-	0.2	0.1	0.1	-	-
Long-horned sculpin	-	-	-	-	1.0	-	-	0.2	-	-	-	-
Angler	-	-	-	-	6.6	3.4	-	7.2	-	9.3	7.0	-
4-bearded rockling	-	-	-	-	0.5	0.3	-	0.1	0.7	1.9	0.2	-
Eel pout	-	-	-	-	1.9	2.6	1.9	2.1	-	0.9	1.1	-
Dab	-	-	-	-	8.8	3.0	1.5	1.1	1.5	18.4	10.4	-
Totals	-	-	-	-	100	100	100	100	100	100	100	-

Table 12.—Species composition in pounds, by month, of Gloucester industrial trawl fish landings from the Ipswich area, 1957
Pounds to the nearest 1,000 pounds.

	January[1]	February[1]	March[1]	April[1]	May	June	July	August	September	October	November	December[2]
Red hake	25	12	10	2	24	81	118	104	107	139	87	17
Silver hake	10	5	4	1	10	29	–	46	96	104	134	25
White hake	2	1	1	–	2	–	–	–	–	–	–	–
Haddock	1	–	–	–	–	–	–	4	14	2	2	–
Cod	–	–	–	–	–	–	–	1	–	2	1	–
Ocean perch	1	1	1	–	1	–	–	–	–	–	–	–
Little skate	1	–	–	–	1	1	–	–	–	8	2	–
Big skate	–	–	–	–	–	–	–	–	–	2	3	1
Barndoor skate	5	3	2	–	5	–	–	–	–	–	–	–
Spiny dogfish	–	–	–	–	–	9	13	2	–	–	13	2
Winter flounder	–	–	–	–	–	–	2	1	–	–	–	–
Dab	6	3	2	–	5	5	2	2	4	75	38	7
Sea herring	–	–	–	–	–	–	2	3	30	6	1	–
Alewife	–	–	–	–	–	–	–	17	–	–	–	–
Blueback	1	1	1	–	1	12	–	–	–	20	34	7
Shad	–	–	–	–	–	5	–	5	–	1	2	–
Long-horned sculpin	1	–	–	–	1	–	–	–	–	–	–	–
Angler	4	2	2	–	4	5	–	15	–	39	26	5
4-bearded rockling	–	–	–	–	–	–	–	–	2	8	1	–
Eel pout	1	1	–	–	1	4	3	4	–	4	4	1
Lumpfish	5	3	2	–	5	–	–	–	–	2	20	4
Totals	63	32	25	3	60	151	140	204	253	412	368	69

[1] January, February, March and April figures are based on May sample data.

[2] December figures based on November sample data.

Table 13.--Species composition in percent by weight, by month, of Gloucester industrial trawl fish landing from the Stellwagen Bank area, 1957.

	Jan.	Feb.	March	April	May	June	July	Aug.[1]	Sept.	Oct.	Nov.	Dec.
Number of samples	1	-	-	-	-	1	3		12	11	2	6
Red hake	38.5	-	-	-	-	0.7	14.2	21.1	27.9	14.7	55.3	55.9
Silver hake	38.3	-	-	-	-	88.8	72.5	56.2	40.3	57.5	10.9	14.7
Haddock	0.9	-	-	-	-	-	-	3.2	6.1	5.1	7.0	8.4
Cod	0.4	-	-	-	-	0.6	-	3.3	6.5	0.1	9.4	10.7
Pollock	-	-	-	-	-	-	-	-	0.1	-	-	-
Ocean perch	-	-	-	-	-	0.2	-	0.9	1.7	0.4	0.5	0.5
Little skate	-	-	-	-	-	-	-	-	0.1	-	-	-
Big skate	-	-	-	-	-	-	-	-	-	0.3	4.0	-
Smoothtail skate	-	-	-	-	-	-	-	0.1	0.2	-	-	-
Spiny dogfish	0.2	-	-	-	-	5.9	5.3	2.9	0.4	0.7	-	2.4
Yellowtail flounder	-	-	-	-	-	-	-	-	0.1	0.7	2.0	0.5
Blackback	0.6	-	-	-	-	-	-	-	-	-	-	0.1
Greysole	1.5	-	-	-	-	-	-	0.2	0.3	0.1	0.2	0.3
Dab	14.5	-	-	-	-	0.2	1.0	1.6	2.1	2.6	2.1	2.5
Sand flounder	-	-	-	-	-	-	-	-	-	-	-	0.1
Sea herring	-	-	-	-	-	0.6	0.2	4.5	8.8	3.3	-	0.7
Alewife	-	-	-	-	-	-	-	0.1	0.3	0.4	2.7	0.4
Blueback	-	-	-	-	-	1.7	-	0.2	0.5	12.2	2.8	0.9
Shad	-	-	-	-	-	-	-	0.5	1.0	0.6	-	-
Butterfish	-	-	-	-	-	-	-	-	-	0.3	-	-
Long-horned sculpin	0.6	-	-	-	-	0.3	0.1	0.2	0.3	0.2	2.0	0.6
Angler	-	-	-	-	-	-	6.1	4.5	2.8	0.4	-	0.1
Sea raven	-	-	-	-	-	0.2	-	-	-	-	-	0.1
4-bearded rockling	0.3	-	-	-	-	-	-	0.1	0.3	0.3	-	0.1
Conger eel	-	-	-	-	-	-	-	-	-	-	-	0.4
Eel pout	4.2	-	-	-	-	0.8	0.6	0.4	0.1	0.1	1.1	0.6
Lamprey	-	-	-	-	-	-	-	-	0.1	-	-	-
Totals	100	-	-	-	-	100	100	100	100	100	100	100

[1] Based on average of July and September samples.

Pounds to the nearest 1,000 pounds.

	January	February [1]	March	April	May	June	July	August [2]	September	October	November	December
Red hake	25	13	-	-	-	-	66	149	1,824	887	2,072	650
Silver hake	24	13	-	-	-	56	338	398	2,635	3,471	408	172
Haddock	1	-	-	-	-	-	-	23	399	308	262	98
Cod	-	-	-	-	-	-	-	23	425	6	352	125
Pollack	-	-	-	-	-	-	-	-	7	-	-	-
Ocean perch	-	-	-	-	-	-	-	6	111	24	19	6
Little skate	-	-	-	-	-	-	-	-	7	-	-	-
Big skate	-	-	-	-	-	-	-	-	-	18	150	-
Smoothtail skate	-	-	-	-	-	-	-	1	13	-	-	-
Spiny dogfish	-	-	-	-	-	4	25	20	26	42	-	28
Yellowtail flounder	-	-	-	-	-	-	-	-	7	42	75	-
Winter flounder	-	-	-	-	-	-	-	-	-	-	-	7
Greysole	1	-	-	-	-	-	-	1	20	6	7	4
Dab	9	5	-	-	-	-	5	11	137	157	79	29
Sand flounder	-	-	-	-	-	-	-	-	-	-	-	1
Sea herring	-	-	-	-	-	-	1	32	575	199	-	8
Alewife	-	-	-	-	-	-	-	1	20	-	101	5
Blueback	-	-	-	-	-	1	-	1	33	736	105	11
Shad	-	-	-	-	-	-	-	4	65	36	-	-
Butterfish	-	-	-	-	-	-	-	-	-	18	-	-
Long-horned sculpin	-	-	-	-	-	-	-	1	20	12	75	7
Angler	-	-	-	-	-	-	28	32	183	24	-	1
Sea raven	-	-	-	-	-	-	-	-	-	-	-	1
4-bearded rockling	-	-	-	-	-	-	-	1	20	18	-	1
Conger eel	-	-	-	-	-	-	-	-	-	-	-	5
Eel pout	3	1	-	-	-	1	3	3	7	6	41	7
Lamprey	-	-	-	-	-	-	-	-	7	-	-	7
Totals	63	32	-	-	-	62	466	707	6541	6,010	3,746	1,166

[1] Based on January sample data.

[2] Based on the average of July and September sample data.

Table 15.--Species composition in percent by weight, by month of Gloucester industrial trawl fish landing from the Nausets area, 1957.

	Jan.	Feb.	March	April	May	June	July	Aug	Sept.[2/]	Oct.	Nov.	Dec.
Number of samples	-	-	-	-	5	8	11	2	-	4	1	-
Red hake	-	-	-	-	41.2	50.1	65.4	77.8	56.0	33.7	66.7	-
Silver hake	-	-	-	-	26.9	35.0	22.2	13.4	29.9	45.4	-	-
White hake	-	-	-	-	1.2	2.3	0.8	-	-	-	-	-
Haddock	-	-	-	-	3.3	0.8	1.1	-	5.9	11.7	12.5	-
Cod	-	-	-	-	-	0.1	-	-	-	-	-	-
Pollock	-	-	-	-	-	-	0.3	-	-	-	-	-
Little skate	-	-	-	-	-	-	0.1	0.9	0.5	0.1	0.4	-
Big skate	-	-	-	-	-	-	-	0.6	0.5	0.4	-	-
Spiny dogfish	-	-	-	-	2.4	1.7	4.3	-	-	-	4.8	-
Yellowtail flounder	-	-	-	-	0.1	-	-	-	-	-	-	-
Greysole	-	-	-	-	-	-	-	-	-	-	0.2	-
Dab	-	-	-	-	0.9	0.5	-	-	0.5	1.0	0.9	-
Sea herring	-	-	-	-	0.9	2.2	-	-	0.4	0.8	1.5	-
Blueback	-	-	-	-	0.4	0.1	-	-	1.7	3.4	4.7	-
Shad	-	-	-	-	-	0.2	-	0.8	-	-	4.2	-
Butterfish	-	-	-	-	-	-	-	-	0.3	0.5	0.5	-
Long-horned sculpin	-	-	-	-	0.1	0.2	0.2	-	0.1	0.1	0.5	-
Angler	-	-	-	-	1.0	3.0	3.1	5.3	2.7	-	-	-
Sea raven	-	-	-	-	-	0.1	0.7	1.2	0.1	0.1	0.6	-
4-bearded rockling	-	-	-	-	0.1	0.1	-	-	-	-	-	-
Conger eel	-	-	-	-	2.8	-	0.3	-	-	-	-	-
Eel pout	-	-	-	-	18.7	3.6	1.5	-	1.3	2.6	2.5	-
Lumpfish	-	-	-	-	-	-	-	-	0.1	0.2	-	-
Totals	-	-	-	-	100	100	100	100	100	100	100	-

[1/] Based on average of August and October samples.

Table 16.--Species composition in pounds, by month, of Gloucester industrial trawl fish landings from the Nausets' area, 1957
Pounds to the nearest 1,000 pounds.

	January	February	March	April 1/	May	June	July	August	September 2/	October	November	December 3/
Red hake	-	-	-	2	699	1,562	2,573	4,057	369	307	926	76
Silver hake	-	-	-	1	458	1,091	873	698	195	413	-	-
White hake	-	-	-	-	20	72	31	-	-	-	-	-
Haddock	-	-	-	-	56	25	43	-	39	107	174	14
Cod	-	-	-	-	-	3	-	-	-	-	-	-
Pollock	-	-	-	-	-	-	12	-	-	-	-	-
Little skate	-	-	-	-	-	-	4	47	3	1	6	-
Big skate	-	-	-	-	-	-	-	31	3	4	-	-
Spiny dogfish	-	-	-	-	41	53	169	-	-	-	-	5
Yellowtail flounder	-	-	-	-	2	-	-	-	-	-	-	-
Dab	-	-	-	-	15	16	-	-	3	9	13	1
Sea herring	-	-	-	-	15	69	-	-	3	7	21	2
Blueback	-	-	-	-	7	3	-	-	11	31	65	5
Shad	-	-	-	-	-	6	-	42	-	-	59	5
Butterfish	-	-	-	-	-	-	-	-	2	5	7	1
Long-horned sculpin	-	-	-	-	2	6	8	-	1	1	7	1
Angler	-	-	-	-	17	94	122	276	18	-	-	-
Sea raven	-	-	-	-	-	3	28	62	1	1	8	1
4-bearded rockling	-	-	-	-	2	3	-	-	-	-	-	-
Conger eel	-	-	-	-	48	-	12	-	-	-	-	-
Eel pout	-	-	-	1	318	112	59	-	9	24	35	3
Greysole	-	-	-	-	-	-	-	-	-	-	3	-
Totals	-	-	-	4	1,700	3,118	3,934	5,213	658	912	1,391	114

1/ Figures based on May sample data.

2/ Figures based on average of August and October samples.

3/ Figures based on November sample data.

Table 17.—Total pounds and percent of each species landed in the industrial trawl catch by port and fishing area, 1957.
Pounds to the nearest 1,000 pounds.
Species present in quantities less than 0.1 percent are indicated by a plus sign.

	Offshore Point Judith		Inshore Point Judith		No Man's Point Judith		No Man's New Bedford		No Man's TOTALS		Ipswich Gloucester		Nausets' Gloucester		Stellwagen Gloucester		Grand Total	Grand Percent
	pounds	%	pounds	%	pounds	%	pounds	%	pounds	%	pounds	%	pounds	%	pounds	%		
Red hake	11,800	27.5	2,382	18.1	19,614	59.8	25,275	59.6	44,889	59.7	726	40.5	10,571	62.0	5,686	30.3	76,054	45.0
Silver hake	11,954	27.9	4,453	33.8	4,665	14.1	6,086	14.3	10,751	14.3	464	25.9	3,729	21.9	7,515	40.0	38,866	23.0
White hake	359	.8	70	.5	97	.3	119	.3	216	.3	6	.3	123	.7	-	-	774	.5
Spotted hake	29	+	1	+	-	-	-	-	-	-	-	-	-	-	-	-	30	+
Haddock	-	-	-	-	18	+	17	+	35	+	23	1.3	458	2.7	1,091	5.8	1,602	1.0
Cod	2	+	5	+	-	+	2	+	2	+	4	0.3	3	+	931	5.0	947	0.6
Tom cod	-	-	1	+	-	-	-	-	-	-	-	-	-	-	-	-	1	+
Pollock	-	-	-	-	-	-	-	-	-	-	-	-	12	0.1	7	+	19	+
Ocean perch	-	-	-	-	-	-	-	-	-	-	4	0.2	-	-	166	0.9	170	0.1
Little skate	2,723	6.4	772	5.9	2,036	6.2	2,860	6.7	4,896	6.5	13	0.8	61	0.4	7	+	8,472	5.0
Big skate	1,335	3.1	672	4.8	1,329	4.1	1,522	3.6	2,851	3.8	6	0.3	38	0.2	168	0.9	5,025	3.0
Barndoor skate	524	1.2	15	.1	398	1.2	509	1.2	907	1.2	15	.9	-	-	-	-	1,461	.9
Smooth-tailed skate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	0.1	14	+
Spiny dogfish	2,775	6.5	933	7.1	388	1.3	575	1.3	963	1.3	39	2.2	268	1.6	145	0.8	5,123	3.0
Smooth dogfish	-	-	114	0.9	29	0.1	24	0.1	53	0.1	-	-	-	-	-	-	167	0.1
Yellowtail flounder	1,035	2.4	1	+	155	0.5	275	0.6	430	0.6	-	-	2	+	124	0.7	1,592	0.9
Winter flounder	117	0.3	102	0.8	36	0.1	37	0.1	73	0.1	3	0.2	-	-	7	+	302	0.2
Summer flounder	-	-	-	-	2	+	5	+	7	+	-	-	-	-	-	-	7	+
Greysole	-	-	-	-	-	-	-	-	-	-	1	+	3	+	39	0.2	42	+
Dab	-	-	-	-	-	-	-	-	-	-	149	8.4	57	0.3	432	2.3	638	0.4
4-spot flounder	305	0.7	143	1.1	262	0.8	329	0.8	591	0.8	-	+	-	-	-	-	1,039	0.6
Sand flounder	365	0.9	120	0.9	150	0.5	233	0.5	383	0.5	-	-	-	-	1	+	869	0.5
Gulf-stream flounder	4	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	+
Sea herring	25	+	67	0.5	37	0.1	72	0.1	109	0.1	42	2.4	117	0.7	815	4.3	1,175	0.7
Alewife	294	0.7	228	1.7	86	0.3	105	0.3	191	0.3	17	1.0	-	-	127	0.7	857	0.5
Blueback	-	-	-	-	-	-	-	-	-	-	77	4.3	122	0.7	887	4.7	1,086	0.6
Shad	-	-	-	-	-	-	-	-	-	-	13	1.0	112	0.7	105	0.6	230	0.1
Menhaden	-	-	2	+	-	-	-	-	-	-	-	-	-	-	-	-	2	+
Cunner	4	+	6	+	10	+	18	+	28	+	-	-	-	-	-	-	38	+
Scup	233	0.5	152	1.2	5	+	14	+	19	+	-	-	-	-	-	-	404	0.2
Butterfish	235	0.6	95	0.7	603	1.8	635	1.5	1,238	1.6	-	-	15	0.1	18	0.1	1,601	1.0
Long-horned sculpin	735	1.7	181	1.4	466	1.4	695	1.6	1,161	1.5	2	0.1	26	0.1	115	0.6	2,220	1.4
Sea robin	239	0.6	364	2.8	186	0.6	374	0.9	560	0.7	-	-	-	-	-	-	1,163	0.7
Striped sea robin	9	+	29	0.2	-	-	-	-	-	-	-	-	-	-	-	-	38	+
Weakfish	-	-	2	+	-	-	-	-	-	-	-	-	-	-	-	-	2	+
Puffer	-	-	1	+	-	-	-	-	-	-	-	-	-	-	-	-	1	+
Angler	3,731	8.7	1,301	9.9	1,073	3.3	1,373	3.2	2,446	3.3	102	5.7	527	3.1	268	1.4	8,375	5.0
Sea raven	22	+	5	+	18	+	28	+	46	+	-	-	104	0.6	1	+	178	0.1
4-bearded rockling	7	+	-	-	7	+	8	+	15	+	11	1.0	5	+	40	0.2	78	+
Conger eel	14	+	5	+	5	+	6	+	11	+	-	-	60	0.3	5	+	95	0.1
Eel pout	3,967	9.3	986	7.5	1,122	3.4	1,251	3.0	2,373	3.2	23	1.3	561	3.3	72	0.4	7,982	4.7
Wrymouth	7	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	+
Lumpfish	-	-	-	-	-	-	-	-	-	-	41	2.3	70	0.4	-	-	111	+
Lamprey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	+	7	+
Totals	42,849		13,163		32,797		42,447		75,244		1,780		17,044		18,792		168,873	

Table 18.--Catch per trip of industrial trawl fish on each of the principal fishing areas, by month, 1957. In thousands of pounds with the number of interviewed trips indicated in parentheses.

Area Month	Pt. Judith Offshore	Pt. Judith Inshore	No Man's	Ipswich	Stellwagen	Nausets
January	13 (62)	6 (39)		13 (2)	13 (3)	
February	18 (110)	10 (41)	16 (3)	8 (2)		
March	14 (91)	17 (34)	32 (32)	8 (3)		
April	35 (246)	6 (78)	46 (67)	4 (1)		2 (1)
May	30 (125)	8 (200)	67 (106)	10 (6)		40 (42)
June	37 (138)	10 (256)	68 (70)	14 (9)	26 (2)	52 (49)
July	27 (135)	5 (149)	64 (76)	14 (5)	35 (9)	54 (41)
August	36 (142)	7 (198)	66 (59)	17 (5)	25 (12)	65 (42)
September	32 (123)	8 (169)	60 (70)	24 (3)	39 (48)	94 (2)
October	32 (117)	8 (153)	67 (26)	23 (18)	36 (169)	61 (15)
November	28 (169)	6 (260)	75 (26)	10 (21)	21 (105)	62 (13)
December	14 (23)	4 (230)	35 (7)	6 (6)	14 (38)	18 (3)

40510